SR
General Purpose Heater

Features:

- Surface mounted case as standard.
- Ideal for stock rooms.
- Can be mounted at heights up to 3.5m.
- Durable.
- 2 Way blow.
- Unit finished in RAL9010 White.
- Available in electric and water versions.
- Easy to install & maintain.

DIFFUSION

SR
General Purpose Heater

Application
The Diffusion SR general purpose heating unit is an ideal choice for areas with little or no ceiling space and is ideally suited in such applications as retail outlets, stock rooms, shops, schools & warehouses. The flexibility of water or electric heating together with its easy install & maintenance enables it to be applied to new buildings or refurbishments.

Description
The Diffusion SR general purpose heating unit is durable, compact and versatile and has been designed to be surface mounted at heights of up to 3.5 metres (FFL). Air is drawn into the unit through pre-punched inlet sections and passes over the heat exchanger then discharges through the two outlet grilles. The unit can also work as recirculation only when no heating is required. Internal components can be easily accessed via removable grilles and casing.

Chassis
The unit chassis shall be manufactured from 1.2mm thick galvanised mild steel. The chassis shall have suitable integral hanging brackets allowing the unit to be supported/hung from the slab via 8/10mm drop rods (by others).

Casing
The case shall be manufactured from 1.2mm thick galvanised mild steel complete with pre-punched inlet areas. The case is finished in RAL9010 (white) as standard, different finishes are available upon request.

Discharge Grilles
The grilles shall be an aluminium egg-crate type and shall be finished in RAL 9010 (white) as standard, different finishes are available upon request. The discharge grilles are removable for partial access.

Fan Assembly
The fan and motor assembly shall be fitted with high output permanent split capacitor, continuously rated and complete with a built in thermal overload protector to DIN IEC38 (BS2048 1961 part 1 & BS5000). The motor shall be totally enclosed, rated at IP44 and fitted with maintenance free sealed for life ball bearings. Motor shall be insulated to BS2757 (class B) and be pre-tapped for 3 speed control.

Heat Exchanger (LPHW Version)
The coil shall be manufactured from solid drawn copper tubes, mechanically expanded into accurately pre-formed collars in rippled plate type aluminium fins. Each coil shall be complete with air vents and drain connections. The coil shall be pressure tested to 40 bar and be suitable for operation with a static head of up to 30 metres.

Electric Elements
Each element shall be manufactured from 8mm fully sheathed stainless steel rods, fitted with individually separated 5mm stainless steel fins complying with BS7351-1990. A manual re-set high temperature cut-out shall be fitted in accordance with standard safety requirements.

Standard Controls
LPHW version - The unit shall be supplied pre wired to medium speed. An optional 3 speed controller can be supplied.

Electric version - Each version shall be supplied with a remote control plate, with on/off, 2 speed and 2 heat selection switches

Function Tests
Each unit shall be function tested at our factory to ensure correct operation. All electrical components shall be tested to ensure each unit and its associated wiring complies with the 16th edition of IEE. The unit shall be manufactured in accordance with BS EN ISO 9001:2000 quality standards.

Optional Extras
Remote 3 speed Control Plate (LPHW Version).

Thermostats: For remote mounting, can be supplied adjustable or tamperproof.

Summer/Winter Switch (manual)**:** Can be used in conjunction with the room thermostat (LPHW version) and/or low water temperature cut out. This will allow the fan only to run.

Low water temperature cut out: Provides automatic shutdown of the fan/motor when boilers have been switched off.

Valve (LPHW version)**:** 2 or 3 Port valve for on/off control, 230vac supply can be supplied loose for fitting by others.

BMS Relay: On/Off connection relay to enable unit to be integrated into main BMS system.

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Performance Details

LPHW versions

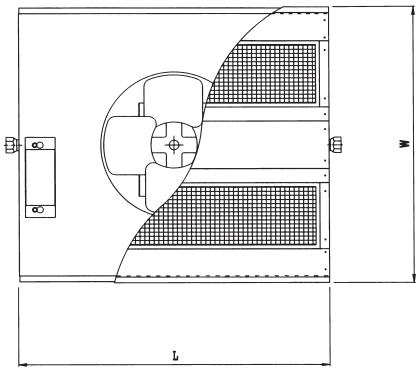
Model	Speed	Duty	Air Volume	Air On °C	Air Off °C	Water On °C	Water PR Drop	Flow Rate	Elec Supply	Power	S.C	F.L.C	Weight	Guide NR	dBA	Pipe Conns	Water Cont. Litres
SRW 5/22	HIGH	14.22kW	308L/s	20 °C	58 °C	82 °C	4.2 kPa	0.32L/s	230-1-50	169W	1.50A	0.80A	26 kg	NR63	65dBA	3/4" BSP (F)	0.99
	MED	11.50kW	226L/s	20 °C	62 °C	82 °C	4.2 kPa	0.32L/s	230-1-50	143W		0.66A		NR60	62dBA		
	LOW	8.28kW	146L/s	20 °C	67 °C	82 °C	4.2 kPa	0.32L/s	230-1-50	128W		0.64A		NR47	50dBA		
SRW 5/50	HIGH	19.62kW	400L/s	20 °C	61 °C	82 °C	9.2 kPa	0.44L/s	230-1-50	174W	1.54A	0.82A	36 kg	NR59	62dBA	1" BSP (F)	1.27
	MED	15.72kW	294L/s	20 °C	64 °C	82 °C	9.2 kPa	0.44L/s	230-1-50	152W		0.69A		NR58	60dBA		
	LOW	11.00kW	186L/s	20 °C	69 °C	82 °C	9.2 kPa	0.44L/s	230-1-50	132W		0.67A		NR49	51dBA		

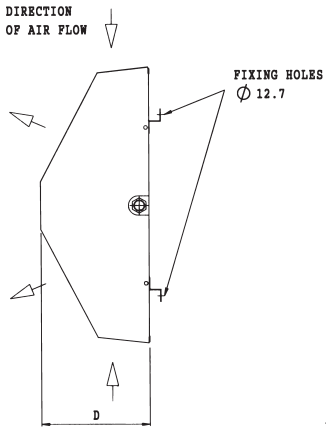
Electric version

MODEL	SPEED	VOLTAGE	DUTY	AIR VOL	AIR ON	AIR OFF	ELEC SUPPLY	POWER	S.C	F.L.C	WEIGHT	GUIDE NR	dBA
SRE 5/50	HIGH	N/A	6.0kW	400L/s	20 °C	32 °C	230-1-50	6174W	26.90A	26.90A	36 kg	NR59	62dBA
	MED	N/A	3.0kW	350L/s	20 °C	27 °C	230-1-50	3152W	13.69A	13.69A		NR58	60dBA

NOTES Guide NR values given are based on 1 off unit mounted at a height of 3.5m within a typical space and measured at 3.0m from the unit discharge grilles. dBA figures given are calculated from the sound pressure levels measured at 3.0m horizontally from the unit discharge grilles.

MODEL	L	W	D
5/22	602	710	275
5/50	802	710	275





Established in 1960, Diffusion has over 50 years experience in producing environmental solutions via the manufacture of heating, air conditioning and ventilating products.

DIFFUSION

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